### YMP-LBNL Quality Assurance

# SEISMIC REFLECTION OPERATION CHECKLIST MONTHLY TESTS

PI: _		Surve	ey Line:	<u>.</u>	Date:/	<u>/</u>
PERFORMANCE		MANCE	Satisf.	Unsat.	N/A	Date
1.0	Monthly Tests on Digital Magnetic		pe			
	1.1	Recorder odd/even crossfeed, analog-to digital linearity, gain accuracy				
2.0	Geophones, Cables, and Array Terminals (if used)					
	2.1	All geophones of same model and frequency response and have same electrical connections to cable				
	2.2	Individual receiver arrays checked for impedance, electricval continuity, phase distortion, polarity, physical integrity				
	2.3	Array terminals checked				
3.0	Surveying					
	3.1	Theodolites and electronic distance measurer field checked as specified	I			
	3.2	Tribrachs collimated				
I cer	tify wi	th my signature that I have verifie	d these opera	_	ooints:	

### YMP-LBNL Quality Assurance

# SEISMIC REFLECTION OPERATION CHECKLIST DAILY TESTS

PI:		Survey Line:	Date: / /		,		
PER	FORM	MANCE	Satisf.	Unsat.	N/A		
1.0	Instrument Tests on Digital Magnetic Tape						
	1.1 1.2 1.3 1.4	Impulse response Dynamic range Equivalent input noise Oscillator test					
2.0	Geo	phones, Cables and Array Terminals (if used)					
	2.1	Cable continuity and leakage within specifications					
	2.2	Power supply of array terminals with specifications					
	2.3	Geophone patterns deployed as close as possible to written instruction/ specification					
	2.4	Geophones planted within 10 degrees of vertical					
	2.5 2.6	Number of active channels is as specified Daily test of array terminals within specification					
3.0	Surveying						
	3.1	Survey notes satisfactorily maintained					
4.0	P-wa	P-wave Vibrator Similarity Test on Digital Magnetic Tape					
	4.1 4.2 4.3 4.4 4.5 4.6	Vibrator 1 Vibrator 2 Vibrator 3 Vibrator 4 Vibrator 5 Vibrator 6					

5.0	Land	Land-Airgun Synchronicity Test on Digital Magnetic Tape				
		Land-airgun 1 Land-airgun 2 Land-airgun 3 Land-airgun 4 Land-airgun 5 Land-airgun 6				
6.0	Shea	Shear-wave Vibrator Similarity Test on Digital Magnetic Tape				
	6.4	Vibrator 1 Vibrator 2 Vibrator 3 Vibrator 4 Vibrator 5 Vibrator 6				
7.0	Test	Test of Shot Boxes				
	7.1 7.2 7.3 7.4	Shotbox 3				
8.0	Obse	Observer				
	<ul><li>8.1</li><li>8.2</li><li>8.3</li><li>8.4</li></ul>	Properly maintains observer's log and records data as it is being produced Properly monitors weather and wind conditions  Halts data acquisition due to equipment malfunction or adverse weather conditions  Properly records uphole shot times				
9.0	Addi	tional Comments (Optional, write "None" if no a	additional comments):			
I cer	tify wi	th my signature that I have verified these opera	tional checkpoints:			

# YMP-LBNL Quality Assurance SEISMIC REFLECTION OPERATION CHECKLIST DATA PROCESSING

PI: _		Survey Line:		Date:/_	
PER	FORM	MANCE	Satisf.	Unsat.	N/A
1.0	Data Processor				
	1.1	Properly maintains an inventory of all record tapes/cartridges with all pertinent information  Properly maintains records indicating the processing flow followed for all data providing as detailed information as possible on computer programs (including version numbers) used and inputs specified			
2.0	Addi	itional Comments (Optional, write "None" if no a	uditional c	omments).	
I cer	tify wi	th my signature that I have verified these operat	ional chec		